F B Rice & Co 605 Darling Street BALMAIN NSW 2041
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r b kke & Co		,	WRITTEN OPINION		
605 Darling Street	9 JUN 2004	(PCT Rule 66)			
BALMAIN NSW 2041			· (1 O1 Hull 00)		
·	F. B. RICE & CO.	Date of mailing (day/month/year)	0 8 JUN 2004		
Applicant's or agent's file reference		REPLY DUE	within TWO MONTHS		
116757/REH/car			from the above date of mailing		
International Application No.	International Filing Da	ate (day/month/year)	Priority Date (day/month/year)		
PCT/AU2003/001584	28 November 2003	3	29 November 2002		
International Patent Classificatio	n (IPC) or both national classific	ation and IPC			
Int. Cl. <sup>7</sup> A61K 9/00, A611	M 31/00, A61F 11/04, A61P	41/00			
Applicant					
COCHLEAR LIMITED et al					
		D 4:			
1. This written opinion is the 1	irst drawn by this International	Preliminary Examining	g Authority.		
	tions relating to the following ite	ems:.			
I X Basis of the opinion	n · .				
II Priority			·		
ΠΙ Non-establishment	of opinion with regard to novelty, in	nventive step and industr	ial applicability		
IV Lack of unity of in	vention				
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents					
	he international application		· ·		
	ns on the international application				
3. The FINAL DATE by which the	he international preliminary examina	ation report must be estal	plished according to Rule 69.2 is:		
29 March 2005		· <b>F</b>			
4. The applicant is hereby invi	ted to reply to this opinion.				
When? See the Reply Due date indicated above. However, the Australian Patent Office will not establish the Report before the earlier of (i) a response being filed, or (ii) one month before the Final Date by which the international preliminary examination report must be established. The Report will take into account any response (including amendments) filed before the Report is established. If no response is filed by 1 month before the Final Date, the international preliminary examination report will be established on the basis of this opinion.  Applicants wishing to have the benefit of a further opinion (if needed) before the report is established should ensure that a response is filed at least 3 months before the Final Date by which the international preliminary examination report must be					
established.					
How? By submitting a wri	tten reply, accompanied, where appre e language of the amendments, see R	ropriate, by amendments, Rules 66.8 and 66.9.	according to Rule 66.3.		
For the examiner's o	oportunity to submit amendments, se obligation to consider amendments a numerication with the examiner, see by	nd/or arguments, see Rul	e 66.4 <i>bis</i> .		
Name and mailing address of the IP	'EA/AU	Authorized Officer			
AUSTRALIAN PATENT OFFICE	•	· · · · · ·			
PO BOX 200, WODEN ACT 260 E-mail address: pct@ipaustralia.gov		K.C. ENCLAND			
Facsimile No. (02) 6285 3929	******	K.G. ENGLAND	, (282 2202		

Form PCT/IPEA/408 (Cover sheet) (July 1998)

Telephone No. (02) 6283 2292



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International application No.

PCT/AU2003/001584

I.	Basis of the opinion
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the claims, pages, as originally filed,
	pages , as amended under Article 19,
	pages, filed with the demand,
	pages, received on with the letter of
	the drawings, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the sequence listing part of the description:
	pages , as originally filed
	pages , filed with the demand
	pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:  the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2)
	and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
. •	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	eplacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this nion as "originally filed"

Form PCT/IPEA/408 (Box I) (July 1998)

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement		•
Novelty (N)	Claims 7, 12 to 19 and 38 to 50	YES
	Claims 1 to 6, 8 to 11 and 20 to 37	NO
Inventive step (IS)	Claims nil	YES
	Claims 1 to 50	NO
Industrial applicability (IA)	Claims 1 to 50	YES
	Claims nil	NO

## 2. Citations and explanations

- D1. WO 02/041666 A1 (Cochlear Limited) 23 May 2002. See in particular page 17 line 20 to page 18 line 10 and the claims.
- D3. WO 03/072193 A1 (Cochlear Limited) 4 September 2003. See especially page 4 line 31 to page 6 line 2 and the claims.
- D4. WO 01/041674 A1 (Lahtinen, Mika) 14 June 2001. See the whole document in particular page 7 line 36 to page 9 line 9, the examples and claims
- D5. WO 00/057949 A1 (Cardiac Pacemakers, Inc) 5 October 2000. See the claims.
- D7. US 6,038,482 (David J. Vachon) 14 March 2000. See the abstract, column 3 lines 15 to 48, the drawings, example and claims.
- D8. US 6,309,410 B1 (Janusz A. Kuzma et al) 30 October 2001. See the abstract, column 3 line 50 to column 5 line 60, the drawings and claims.
- D9. US 6,304,787 B1 (Janusz A. Kuzma et al) 16 October 2001. See the abstract, column 4 lines 1 to 27, the drawings and claims.
- D10. WO 02/083234 A1 (St. Jude Medical AB) 24 October 2002. See page 4 line 6 to page 7 line 10, the drawings and claims.
- D1 and D3 disclose cochlear implants with provision for drug delivery to the cochlea. They do not disclose details of the location of the bioactive substances nor of the arrangement of the pores in a drug retaining substrate. Claims 1 to 6, 13 and 20 to 37 are not novel in comparison.
- D4 discloses coating of implanted devices with nucleic acids which encode materials that improve biocompatibility. The nucleic acids may be held in porous, biodegradable or biocompatible materials including metals and polymers. The present claims are novel in comparison but when D4 is taken in combination with any or all of D1, D2, D3 and D6 claims 1 to 50 lack an inventive step.
- D5 discloses cardiac pacemaker leads and electrodes with porous substrates carrying drugs. Claims 1, 2, 5, 8 to 11, 20, 22, 24 to 26, 28, 29 and 31 to 35 are not novel in comparison and when D5 is taken in combination with any or all of D1 and D3 claims 1 to 50 lack an inventive step.

Form PCT/IPEA/408 (Box V) (July 1998)



International application No.

PCT/AU2003/001584

VI	. Certain documents cited			·		
1.	Certain published documents (Rul	Certain published documents (Rule 70.10)				
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)		
	WO 03/049658 A1	19/6/2003	10/12/2002	10/12/2001		
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Ď	6 discloses cochlear implants wi cation of the bioactive substance	th provision for drug delivers	ery to the cochlea. It does not the pores in a drug retaining	ot disclose details of the		
100	cation of the bloactive substance	s not of the attangement o	i the pores in a drug retainm	eg substrate.		
			•			
2.	Non-written disclosures (Rule 70.	9)	- · · · · · · · · · · · · · · · · · · ·	· .		
	Kind of non-written disclosure	Date of non-wri (day/mon		of written disclosure referring to non-written disclosure		
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Form PCT/IPEA/408 (Box VI) (July 1998)



Internation

International application No.

PCT/AU2003/001584

## VIII. Certain observations on the international application

The following observations on the claims are fully supported by the description, are made:

Claims 1 to 5, 7 to 22, 24 to 26, 28 to 29, 31 to 35, 37, 38, 44 to 48 and 50 do not, or do not necessarily define a cochlear implant that incorporates a porous biocompatible material having a bioactive substance disposed therein. These claims define a wide variety of implantable devices which do not necessarily incorporate electrode assemblies and are not fully supported by the description which describes a cochlear implant.

Form PCT/IPEA/408 (Box VIII) (July 1998).



International application No.

PCT/AU2003/001584

## Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

## Continuation of Box V

D7 discloses a cardiac pacemaker lead and electrode which contains a matrix loaded with a drug. Claims 1, 2, 5, 8 to 11, 20, 22, 24 to 26, 28, 29 and 31 to 35 are not novel in comparison and when D7 is taken in combination with any or both of D1 and D3 claims 1 to 50 lack an inventive step.

D8 discloses a cochlear implant with a drug delivery channel through the centre, while in D9 a cochlear implant may be coated with a drug or have a drug delivery channel as in D8. Claims 24, 26, and 27 are not novel in comparison.

D10 discloses a cardiac pacemaker lead and electrode which contains a matrix loaded with a drug. Claims 1, 2, 5, 8 to 11, 20, 22, 24 to 26, 28, 29 and 31 to 35 are not novel in comparison and when D10 is taken in combination with any or both of D1 and D3, claims 1 to 50 lack an inventive step.

Form PCT/IPEA/408/ (Supplemental Box)